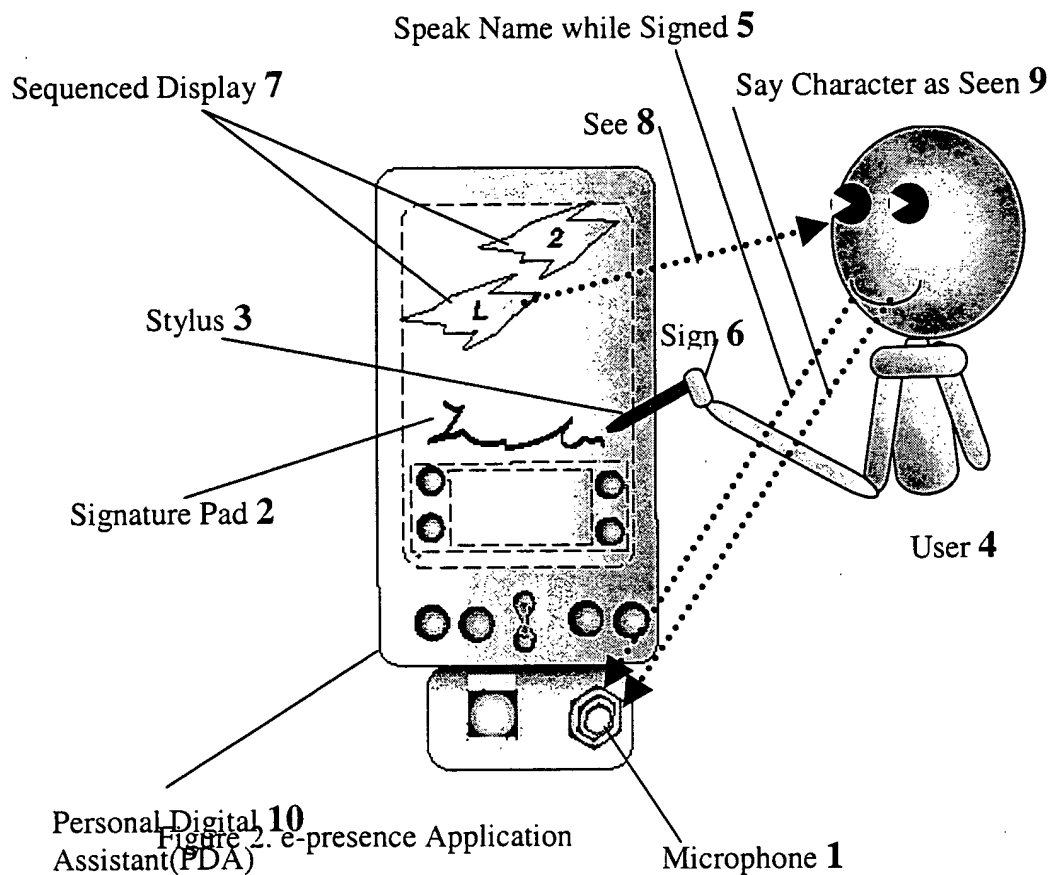


Figure 1. Invention Application Concept



Personal Digital Assistant (PDA)
Figure 2. e-presence Application
 (e.g., Palm Pilot®) with invention
 technology in an ASIC contained in
 microphone attachment.

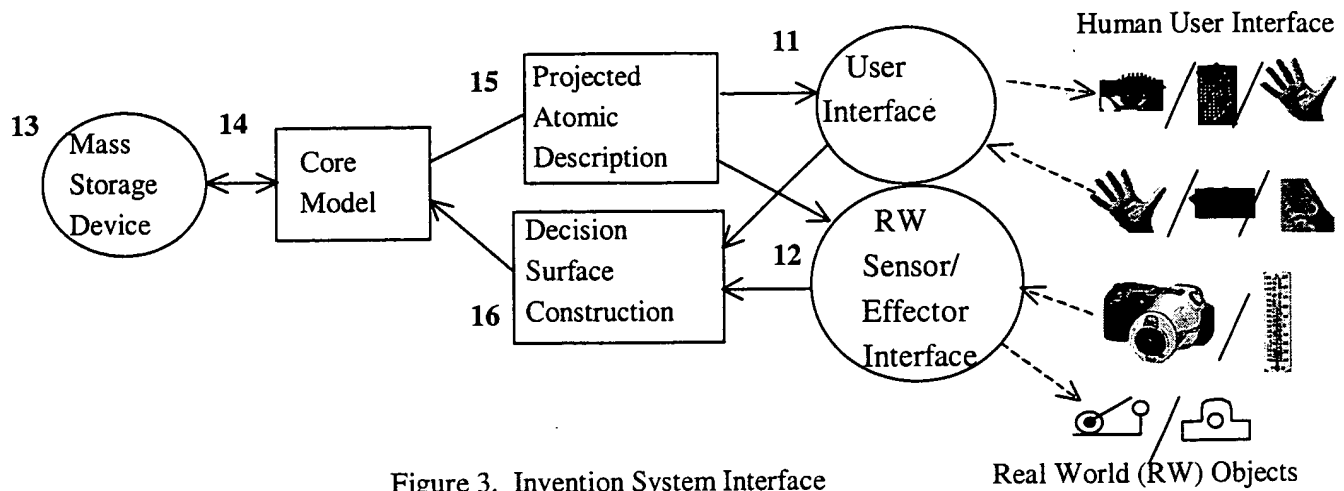


Figure 3. Invention System Interface

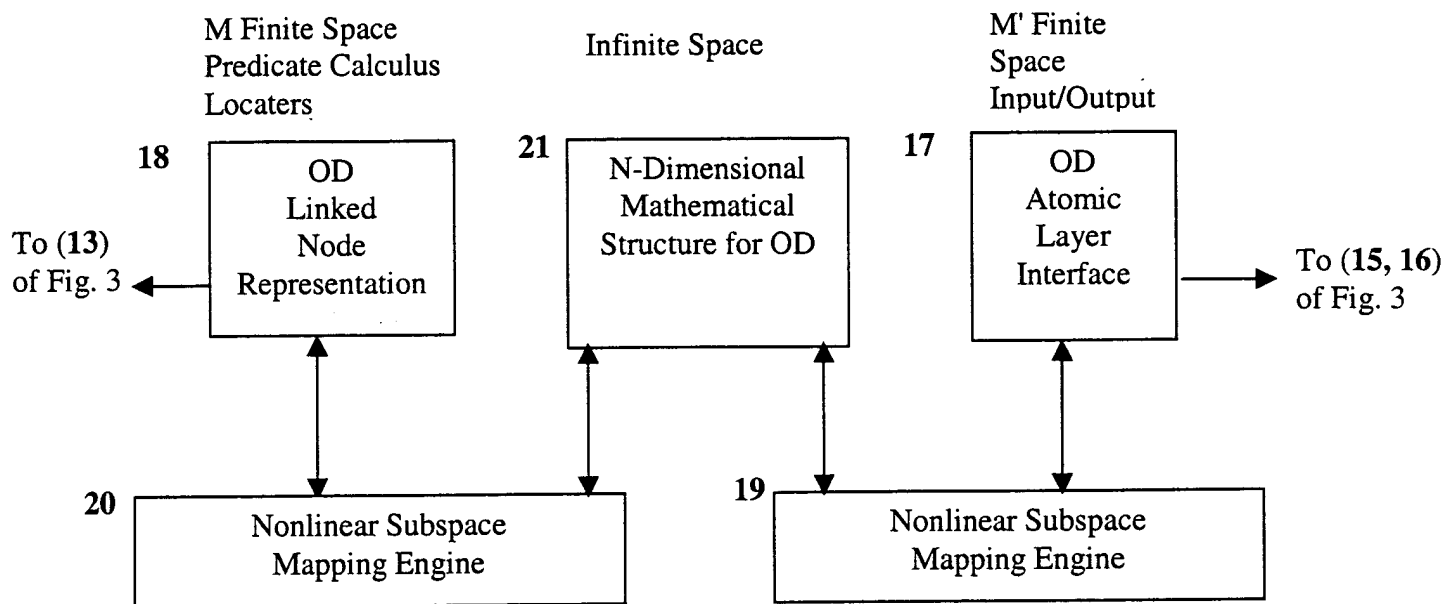


Figure 4. Core Model elements

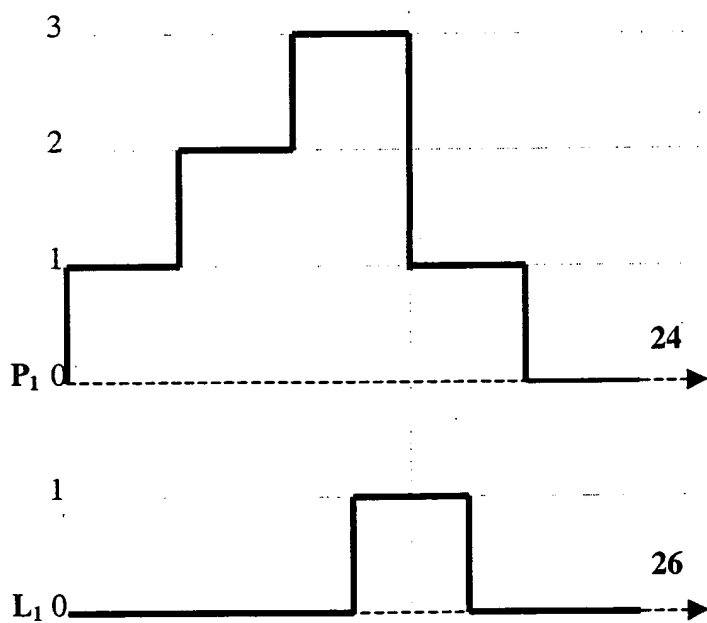
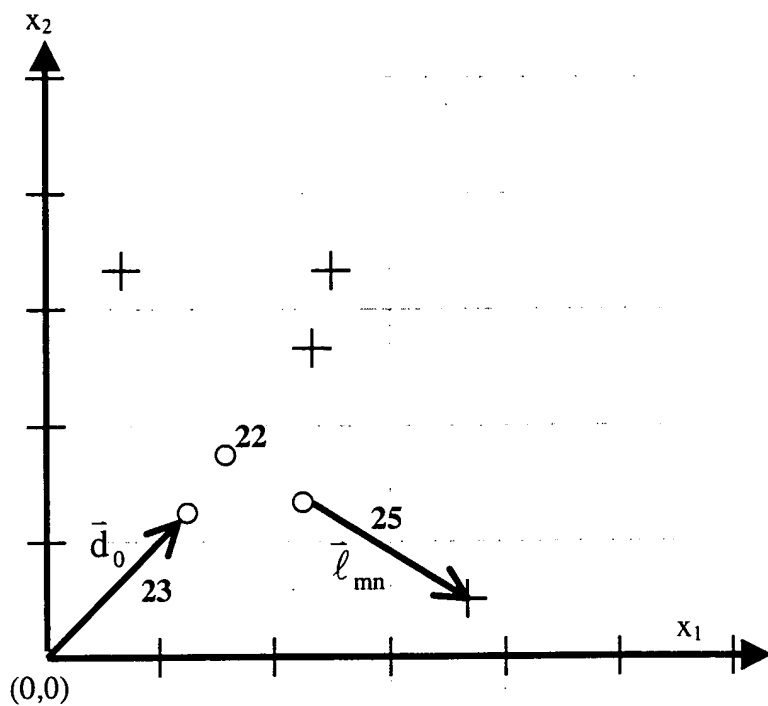
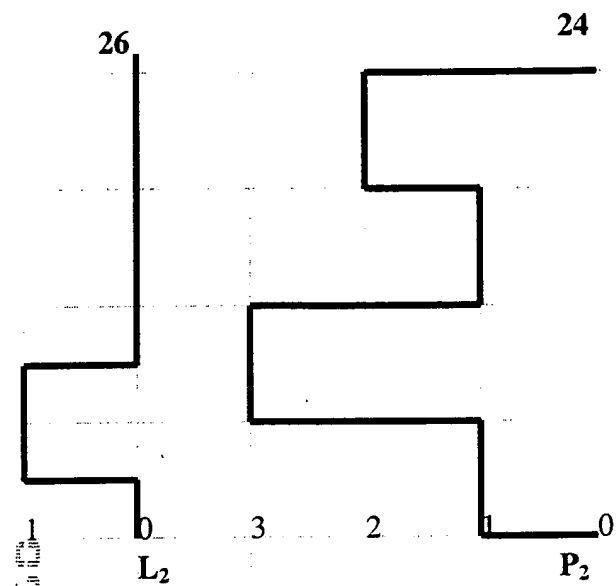
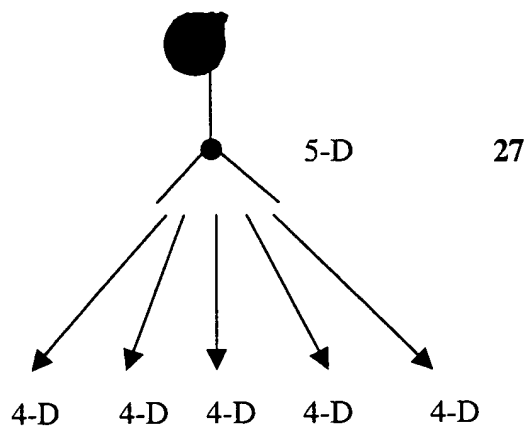
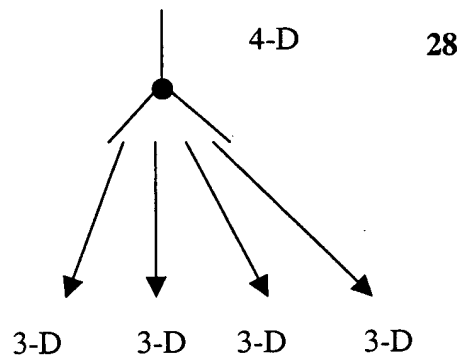


Figure 5. 2-D OD Representation

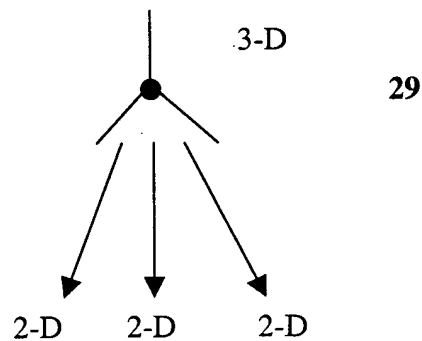
- a) Full Space $N = N' = 5$
(SD = 1)



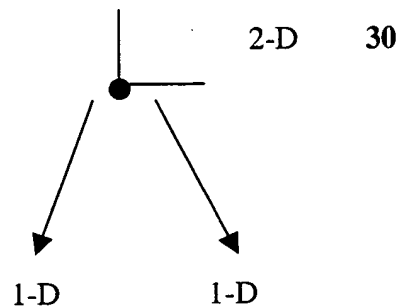
- b) $(N - N') = 1$ $N' = 4$
(SD = 5)



- c) $(N - N') = 2$ $N' = 3$
(SD = 5 X 4)



- d) $(N - N') = 3$ $N' = 2$
(SD = 5 X 4 X 3)



- e) $(N - N') = 4$ $N' = 1$
(SD = 5 X 4 X 3 X 2)

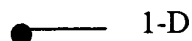


Figure 6. Subspace Expansion for $N = 5$

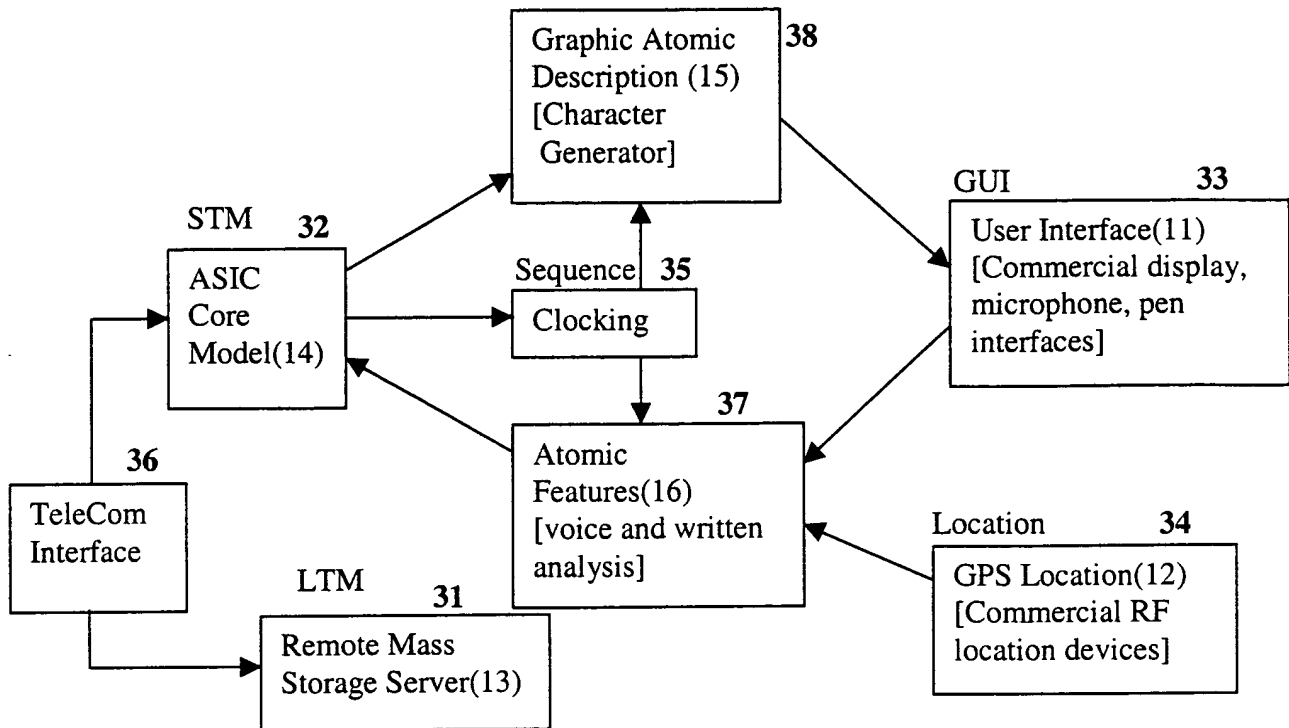


Figure 7. User Authentication ID Application with the invention technology

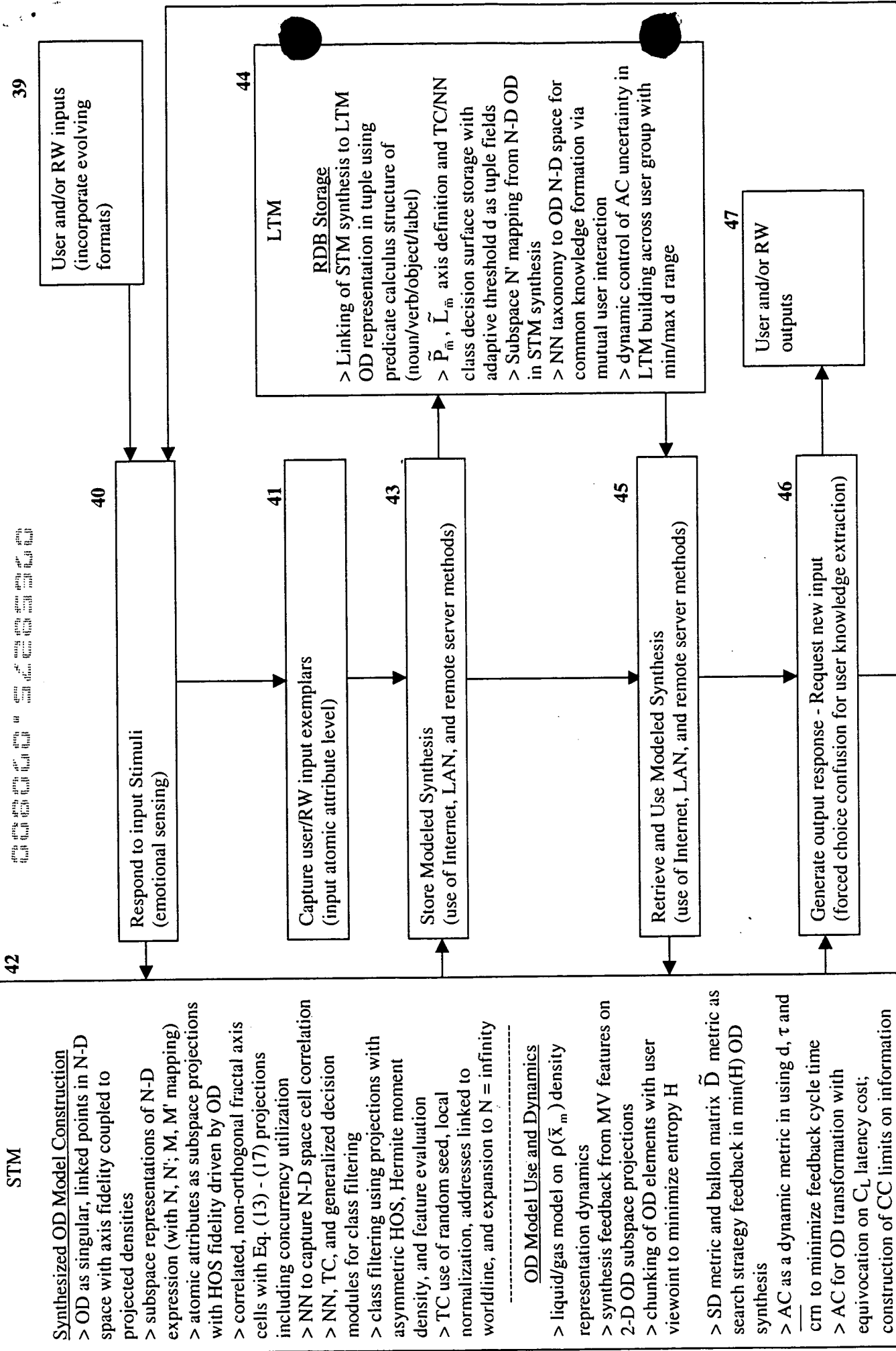


Figure 8. Invention Method Flow Chart

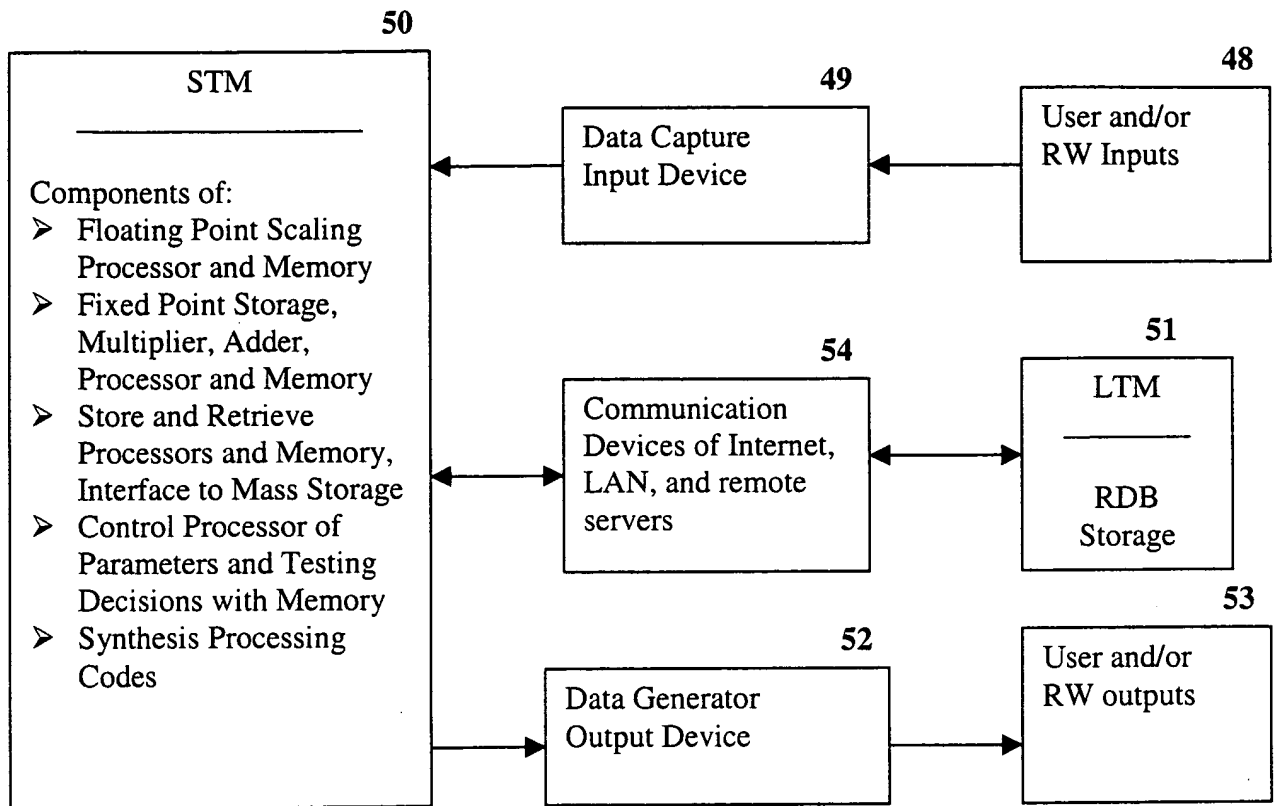


Figure 9. Invention System Generic Block Diagram